

Use Attainability Analysis

for

WBID 0253 Davis Creek Ditch

Submitted by
Tetra Tech, Inc

To
Missouri Department of Natural Resources
Water Protection Program

APR 6 2005

Field Data Sheets for Recreational Use Stream Surveys

WATER PROTECTION PROGRAM

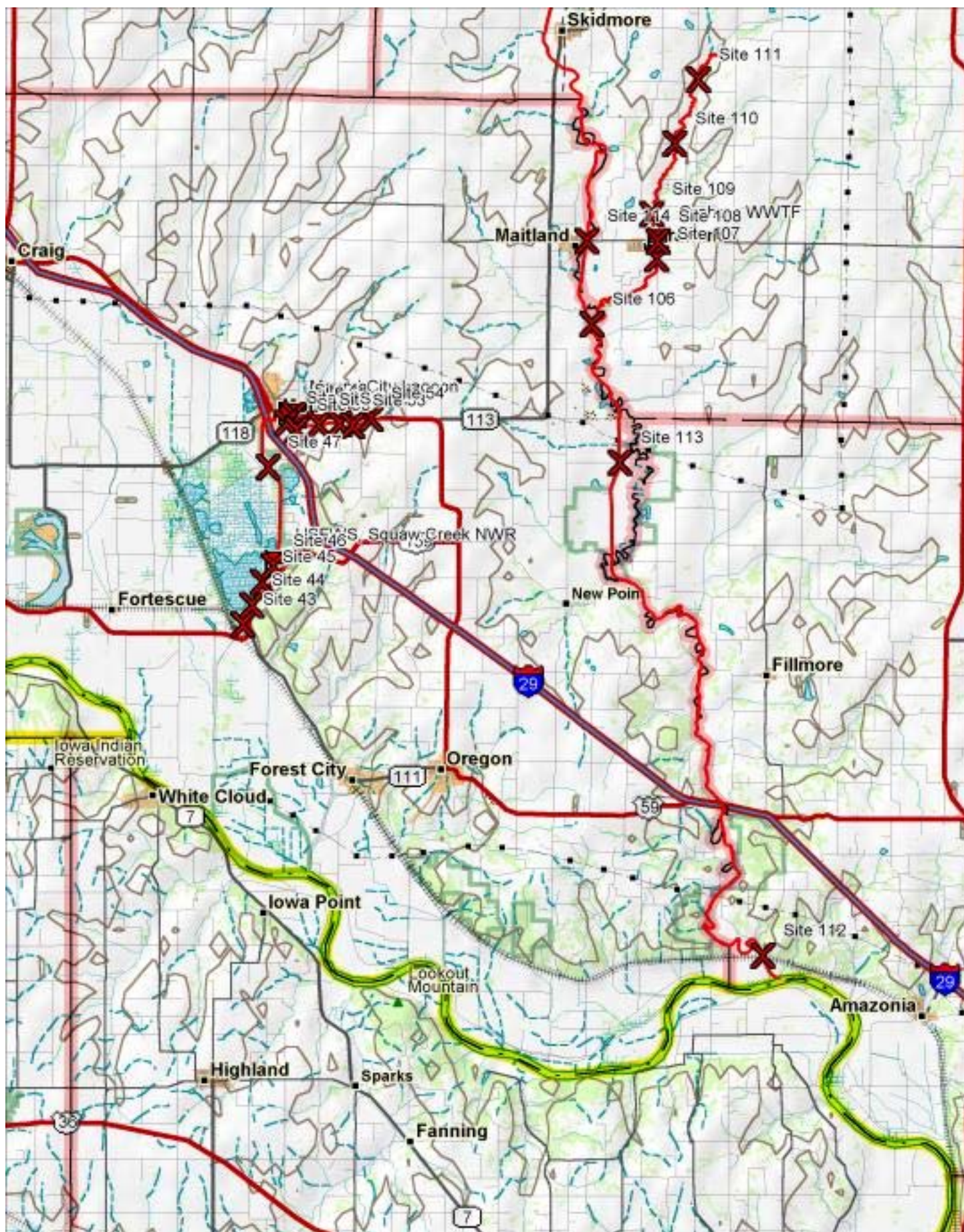
Data Sheet A - Water Body Identification

| |
|--|
| Water Body Name: (from USGS 7.5' quad) DAVIS CREEK DITCH; 43-48 |
| 8-digit HUC: 10240005 |
| Missouri WBID #: 0253 |
| County: CEDAR |
| Upstream Legal Description: |
| Downstream Legal Description: |
| Upstream Coordinates: (UGS 84, ddd.ddddd) 40.12920 -095.20369 Acc: 26 FL. |
| Downstream Coordinates: (UGS 84, ddd.ddddd) 40.10941 -095.23589 Acc: 22 FL. |
| Discharger Facility Name(s): USFWS, SOUAW CREEK NWR |
| Discharger Permit Number(s): MD-0122224 |
| Number of Sites Evaluated: 6 |
| Name of Surveyor and Telephone Number: CHAD BATHOUR: 410-356-8113 |
| Organization: TETRA TECH INC. |
| Position: ASSOCIATE SCIENTIST |

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: 

Date: 03-29-05



Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | |
|--|---|--------|
| Missouri WBID #: 43* | Site Location Description: INDIAN RD - SQUAW CREEK NWB | |
| Site GPS Coordinates: | | |
| Date & Time: 03-17-05 | Facility Name: | |
| Personnel: CHAD DARRIN, JEREMY PROFFER | Permit Number: | |
| Current Weather Conditions: SDF, PARTLY CLOUDY, WIND | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: | Downstream: | Other: |

Uses Observed*:

| | | | | |
|--|--------------------------------------|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input type="checkbox"/> None of the above | <input type="checkbox"/> Other: |
| Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.) | | | | |

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|--|--------------------------------------|---|--|---|
| <input type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|--------------------------------------|--|--|---|--|
| <input type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

JTR - 03/17/05

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|---------------------------------|---|-----------------------------------|------------------|------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Flow | Present? <input type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): | | |

Downstream View Physical Dimensions:

| | | | | |
|---------------------------------|---|-----------------------------------|------------------|------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Flow | Present? <input type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): | | |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|----------|----------|--------|--------|------------|-----------|
| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|----------|----------|--------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

| |
|--|
| |
|--|

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---------------------------------|---|--------------------------------|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Chad Date: 03-17-05

Organization: TOTAN Tech Inc. Position: ASSOCIATE SCIENTIST

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

| | | | |
|--|--------------------|---|--|
| Missouri WBID #: 43- ALTGAMMTO SITE LOCATION | | Site Location Description: KOVINGTON RD. SQUAW CREEK NWA | |
| Site GPS Coordinates: 37.48109416045, 23589 Alt: 2294 Ft | | | |
| Date & Time: 03-17-05, 1200 | | Facility Name: USFWS, SQUAW CREEK NWA | |
| Personnel: CHAD GANDOUR, JOHNNY ROBERTSON | | Permit Number: | |
| Current Weather Conditions: 50°F, PARTLY SUNNY, WINDY | | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 1612 B | Downstream: 1611 B | Other: 1613-DAM | |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
 SITE LOCATED WITHIN SQUAW CREEK NATIONAL WILDLIFE REFUGE ALONG KOVINGTON RD.
 VERY ACCESSIBLE.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input checked="" type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input checked="" type="checkbox"/> State parks | <input checked="" type="checkbox"/> National forests | <input checked="" type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input checked="" type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: WILDLIFE REFUGE | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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JTR 03/17/05

Stream Morphology:

Upstream View Physical Dimensions: 0.13, 0.13, 0.03, 0.13, 0.03 m.

| | | | | |
|--|-----------------------|---|---|-------------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>2m</u> | Length (ft): <u>20m</u> | Avg. Depth (ft): <u>0.09m</u> | Max. Depth (ft): <u>0.13m</u> |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): <u>4m=13s; 4m=13s; 4m=13s</u> | |

Downstream View Physical Dimensions: 0.13, 0.13, 0.03, 0.13, 0.03 m. 0.03, 0.03, 0.13, 0.13, 0.13 Flow = 0.32 m/s

| | | | | |
|--|-------------------------|---|---|-------------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): <u>1.6m</u> | Length (ft): <u>20m</u> | Avg. Depth (ft): <u>0.11m</u> | Max. Depth (ft): <u>0.13m</u> |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): <u>4m=30s; 4m=30s; 4m=17s</u> | |

Substrate*: (These values should add up to 100%.)

| | | | | | |
|----------|----------|--------|--------|------------|-----------|
| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|----------|----------|--------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

NONE

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---|---------------------------------|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input checked="" type="checkbox"/> Clear | <input type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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Signed: CHAM Date: 03-17-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

STR 03/17/05





Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|-------------------------|---|--|
| Missouri WBID #: 44 | | Site Location Description: INDIAN RD. SQUAW CREEK NWR. | |
| Site GPS Coordinates: 2440.05 344 W 045.24565 Alt: 175 FT | | | |
| Date & Time: 03-17-05, 1100 | | Facility Name: USFWS SQUAW CREEK NWR | |
| Personnel: CHAD SANDOZ, JEREMY ROBBEN | | Permit Number: | |
| Current Weather Conditions: 50°F, PARTLY CLOUDY, WIND | | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 1605 1606 B | Downstream: 1606 1607 B | Other: 1607 - ROAD ALONG SQUAW CREEK | |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input checked="" type="checkbox"/> Wading C&P | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
SITE LOCATED WITHIN SQUAW CREEK NATIONAL WILDLIFE REFUGE, ALONG INDIAN RD.
VERY ACCESSIBLE.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|--|--|---|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input checked="" type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input checked="" type="checkbox"/> State parks | <input checked="" type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: WILDLIFE REFUGE | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Stream Morphology:

Upstream View Physical Dimensions: 0.13, 0.14, 0.10, 0.12, 0.03m

| | | | | |
|--|------------------|---|--|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 2.6m | Length (ft): 20m | Avg. Depth (ft): 0.10m | Max. Depth (ft): 0.14m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m=19s; 4m=15s; 4m=14s | |

Flow = 0.25 m/s

Downstream View Physical Dimensions: 0.10, 0.13, 0.22, 0.10, 0.02m

| | | | | |
|--|------------------|---|--|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 2.5m | Length (ft): 20m | Avg. Depth (ft): 0.11m | Max. Depth (ft): 0.22m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m=11s; 4m=10s; 4m=11s | |

Flow = 0.38 m/s

Substrate*: (These values should add up to 100%.)

| | | | | | | | |
|----------|----------|--------|----|--------|----|------------|-----------|
| % Cobble | % Gravel | % Sand | 15 | % Silt | 85 | % Mud/Clay | % Bedrock |
|----------|----------|--------|----|--------|----|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

NONE.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: [Signature] Date: 03-17-05

Organization: TETRA TECH Inc. Position: ASSOCIATE SCIENTIST

JTR - 03/17/05





Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|--|-------------------|--|--|
| Missouri WBID #: 45 | | Site Location Description: INDIAN RD. WITHIN SQUAW CREEK NWR. | |
| Site GPS Coordinates: N 40° 06.366 W 95° 23.76 N UTM 15P | | Facility Name: USFWS, SQUAW CREEK NWR | |
| Date & Time: 03-17-05, 1040 | | Permit Number: | |
| Personnel: CHAD BARBOUR, JENAMY AUGER | | Weather Conditions for Past 7 days: | |
| Current Weather Conditions: 50°F, Sunny, Windy | | | |
| Photo Ids: Upstream: 1602B | Downstream: 1603B | Other: 1604 - ROAD NEXT TO STAGAM. | |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input checked="" type="checkbox"/> Wading C&P | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
SITE WITHIN SQUAW CREEK NATIONAL WILDLIFE REFUGE. BODY ACCESSIBLE NEXT TO ROAD

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input checked="" type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input checked="" type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input checked="" type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|--|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input checked="" type="checkbox"/> Other: WILDLIFE REFUGE | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Stream Morphology:

Upstream View Physical Dimensions: 0.41, 0.50, 0.51, 0.51, 0.50 m

| | | | | |
|--|------------------|---|--|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 1.5m | Length (ft): 20m | Avg. Depth (ft): 0.49m | Max. Depth (ft): 0.51m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m=20s; 4m=21s; 4m=22s | |

Flow = 0.19 m/s

Downstream View Physical Dimensions: 0.51, 0.50, 0.50, 0.40, 0.22 m

| | | | | |
|--|------------------|---|--|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 1.5m | Length (ft): 20m | Avg. Depth (ft): 0.43m | Max. Depth (ft): 0.54m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m=14s; 4m=14s; 4m=12s | |

Flow = 0.30 m/s

Substrate*: (These values should add up to 100%.)

| | | | | | | | |
|----------|----------|--------|----|--------|----|------------|-----------|
| % Cobble | % Gravel | % Sand | 20 | % Silt | 80 | % Mud/Clay | % Bedrock |
|----------|----------|--------|----|--------|----|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

ALGAL GROWING THROUGHOUT.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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Signed: [Signature] Date: 03-17-05

Organization: TEENA TECH INC. Position: ANALYST SLS-TEST

JTR-03/17/05





Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|--------------------|---|--|
| Missouri WBID #: 46 | | Site Location Description: IVY ROAD OVERPASS WITHIN SQUAW CREEK NATIONAL WILDLIFE REFUGE. | |
| Site GPS Coordinates: 37.070124095, -91.211244116 | | Facility Name: USFWS SQUAW CREEK NWA | |
| Date & Time: 03-17-05, 1030. | | Permit Number: | |
| Personnel: LINDA DANDREA, JEREMY PROVEN | | Weather Conditions for Past 7 days: DRY, 54°F | |
| Current Weather Conditions: 48°F, SUNNY, WINDY | | | |
| Photo Ids: Upstream: 1548 D | Downstream: 1549 D | Other: 1600 - WILDLIFE VIEWING DECK NEXT TO SITE. | |

Uses Observed*:

| | | | | |
|---------------------------------------|---|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input checked="" type="checkbox"/> Wading COO | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input checked="" type="checkbox"/> Trapping CO | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
SITE LOCATED WITHIN NATIONAL WILDLIFE REFUGE, NEXT TO PARKING LOT; VERY ACCESSIBLE.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|--|---|--|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input checked="" type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input checked="" type="checkbox"/> State parks | <input type="checkbox"/> National forests | <input checked="" type="checkbox"/> Nature trails | <input checked="" type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|--|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input checked="" type="checkbox"/> Other: OBSERVATION DECKS | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morphology:

Upstream View Physical Dimensions: 0.11, 0.20, 0.13, 0.23, 0.11 m

| | | | | |
|--|------------------|---|---|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 4.2m | Length (ft): 20m | Avg. Depth (ft): 0.16m | Max. Depth (ft): 0.23m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m = 315; 4m = 235; 4m = 285; | |

Flow = 0.15 m/s

Downstream View Physical Dimensions: 0.12, 0.30, 0.23, 0.30, 0.14 m

| | | | | |
|--|------------------|---|---|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 3.7m | Length (ft): 20m | Avg. Depth (ft): 0.24m | Max. Depth (ft): 0.33m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m = 195; 4m = 345; 4m = 205. | |

Flow = 0.16 m/s

Substrate*: (These values should add up to 100%.)

| | | | | | |
|----------|----------|--------|--------|------------|-----------|
| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|----------|----------|--------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

ALGAE GROWING THROUGHOUT

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: [Signature] Date: 03-16-05

Organization: TEMA TECH INC. Position: ASSOCIATE SCIENTIST

JTR-03-17-05





Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|--|--------------------|---|--|
| Missouri WBID #: 47 | | Site Location Description: KOVINGTON RD. SQUAW CREEK NWR | |
| Site GPS Coordinates: N40.11033 W095.22673 Acc: 14.0 Ft. | | | |
| Date & Time: 03-17-05, 1130 | | Facility Name: USFWS SQUAW CREEK NWR | |
| Personnel: CHAD BARBER, JEREMY ROBERTS | | Permit Number: | |
| Current Weather Conditions: 50°F, PARTLY CLOUDY, WIND | | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 1608 B | Downstream: 1609 B | Other: 1610- RAFTING STATION | |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input checked="" type="checkbox"/> Wading <i>obs</i> | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
 SITE WITHIN SQUAW CREEK NATIONAL WILDLIFE REFUGE; ALONG KOVINGTON RD. VERY ACCESSIBLE. CB

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|--|---|---|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input checked="" type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input checked="" type="checkbox"/> State parks | <input checked="" type="checkbox"/> National forests | <input checked="" type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: WILDLIFE REFUGE | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Stream Morphology:

Upstream View Physical Dimensions:

| | | | | |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Pool | Width (ft): 5m | Length (ft): 20m | Avg. Depth (ft): [*] N/A | Max. Depth (ft): [*] N/A |
| <input type="checkbox"/> Flow Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft ³ /sec): | | |

* - TOO DEEP TO MEASURE: MAX DEPTH > 4m.

Downstream View Physical Dimensions:

| | | | | |
|--|---|-----------------------------------|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input type="checkbox"/> Run | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Pool | Width (ft): 5m | Length (ft): 20m | Avg. Depth (ft): [*] N/A | Max. Depth (ft): [*] N/A |
| <input type="checkbox"/> Flow Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Estimated (ft ³ /sec): | | |

* - TOO DEEP TO MEASURE: MAX DEPTH > 4m.

Substrate*: (These values should add up to 100%) N/A - TOO DEEP TO MEASURE

| | | | | | |
|----------|----------|--------|--------|------------|-----------|
| % Cobble | % Gravel | % Sand | % Silt | % Mud/Clay | % Bedrock |
|----------|----------|--------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

| |
|-----|
| N/A |
|-----|

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|---|--|-------------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: N/A |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Chloe M. Date: 03-17-05

Organization: TETRA TECH INC. Position: ASSOCIATE SCIENTIST

STR 03/17/05
September 29, 2004





Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

| | | | |
|---|-------------------|--|--|
| Missouri WBID #: 48 | | Site Location Description: AT ROUTE 29 OVERPASS | |
| Site GPS Coordinates: N40.129206045, W93.26369161, 26.986 | | | |
| Date & Time: 03-17-05, 1230 | | Facility Name: US FWS, SQUAW CREEK NWA | |
| Personnel: CHAD BARBOLA, JENAMY ROBBEN | | Permit Number: | |
| Current Weather Conditions: 50°F, OVERCAST, WINDY | | Weather Conditions for Past 7 days: | |
| Photo Ids: Upstream: 16146 | Downstream: 16155 | Other: | |

Uses Observed*:

| | | | | |
|---------------------------------------|--------------------------------------|---------------------------------------|---|---------------------------------------|
| <input type="checkbox"/> Swimming | <input type="checkbox"/> Skin diving | <input type="checkbox"/> SCUBA diving | <input type="checkbox"/> Tubing | <input type="checkbox"/> Water skiing |
| <input type="checkbox"/> Wind surfing | <input type="checkbox"/> Kayaking | <input type="checkbox"/> Boating | <input type="checkbox"/> Wading | <input type="checkbox"/> Rafting |
| <input type="checkbox"/> Hunting | <input type="checkbox"/> Trapping | <input type="checkbox"/> Fishing | <input checked="" type="checkbox"/> None of the above | <input type="checkbox"/> Other: |

Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)
AREA BETWEEN TOWN AND SQUAW CREEK NATIONAL WILDLIFE REFUGE. NO VISIBLE USES.

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

| | | | | |
|---|---|--|--|---|
| <input checked="" type="checkbox"/> City/county parks | <input type="checkbox"/> Playgrounds | <input type="checkbox"/> MDC conservation lands | <input type="checkbox"/> Urban areas | <input type="checkbox"/> Campgrounds |
| <input type="checkbox"/> Boating accesses | <input checked="" type="checkbox"/> State parks | <input checked="" type="checkbox"/> National forests | <input type="checkbox"/> Nature trails | <input type="checkbox"/> Stairs/walkway |
| <input type="checkbox"/> No trespass sign | <input type="checkbox"/> Fence | <input type="checkbox"/> Steep slopes | <input type="checkbox"/> Other: | |

Evidence of Human Use*:

| | | | | |
|---|--|--|---|--|
| <input checked="" type="checkbox"/> Roads | <input type="checkbox"/> Foot paths/prints | <input type="checkbox"/> Dock/platform | <input type="checkbox"/> Livestock Watering | <input type="checkbox"/> RV / ATV Tracks |
| <input type="checkbox"/> Rope swings | <input type="checkbox"/> Camping Sites | <input type="checkbox"/> Fire pit/ring | <input type="checkbox"/> NPDES Discharge | <input type="checkbox"/> Fishing Tackle |
| <input type="checkbox"/> Other: | | | | |

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

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Stream Morphology:

Upstream View Physical Dimensions: 0.02, 0.03, 0.13, 0.12, 0.1m

| | | | | |
|--|----------------|---|---|------------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 3m | Length (ft): 20m | Avg. Depth (ft): 0.06m | Max. Depth (ft): 0.13m |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m=85; 4m=85; 4m=65 | |

Flow = 0.55 m/s

Downstream View Physical Dimensions: 0.17, 0.24, 0.24, 0.31, 0.32m

| | | | | |
|--|------------------|---|--|-----------------------|
| <input type="checkbox"/> Riffle | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Run | Width (ft): 1.7m | Length (ft): 20m | Avg. Depth (ft): 0.28m | Max. Depth (ft): 0.32 |
| <input type="checkbox"/> Pool | Width (ft): | Length (ft): | Avg. Depth (ft): | Max. Depth (ft): |
| <input checked="" type="checkbox"/> Flow | Present? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Estimated (ft ³ /sec): 4m=155; 4m=145; 4m=165 | |

Flow = 0.27 m/s

Substrate*: (These values should add up to 100%.)

| | | | | | | |
|----------|----------|------|--------|--------|------------|-----------|
| % Cobble | % Gravel | % To | % Sand | % Silt | % Mud/Clay | % Bedrock |
|----------|----------|------|--------|--------|------------|-----------|

Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

ALGAE GROWING THROUGHOUT.

Water Characteristics*: (Mark all that apply.)

| | | | | | |
|------------------|---------------------------------|---|--|--|---------------------------------|
| Odor: | <input type="checkbox"/> Sewage | <input type="checkbox"/> Musky | <input type="checkbox"/> Chemical | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |
| Color: | <input type="checkbox"/> Clear | <input checked="" type="checkbox"/> Green | <input type="checkbox"/> Gray | <input type="checkbox"/> Milky | <input type="checkbox"/> Other: |
| Bottom Deposit: | <input type="checkbox"/> Sludge | <input type="checkbox"/> Solids | <input checked="" type="checkbox"/> Fine sediments | <input type="checkbox"/> None | <input type="checkbox"/> Other: |
| Surface Deposit: | <input type="checkbox"/> Oil | <input type="checkbox"/> Scum | <input type="checkbox"/> Foam | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Other: |

Comments: Please attach additional comments (including information from interviews) to this form.

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I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: [Signature] Date: 03-17-05

Organization: TOTRA TECH INC. Position: ANALYST SCIENTIST

JTR-03/17/05

